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**Sinopsis**

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This volume contains papers based on lectures given at the 12th International Conference on  $p$ -adic Functional Analysis, which was held at the University of Manitoba on July 2-6, 2012.

The articles included in this book feature recent developments in various areas of non-archimedean analysis: branched values and zeros of the derivative of a  $p$ -adic meromorphic function,  $p$ -adic meromorphic functions  $f \in P'(f), g \in P'(g)$  sharing a small function, properties of composition of analytic functions, partial fractional differentiability, morphisms between ultrametric Banach algebras of continuous functions and maximal ideals of finite dimension, the  $p$ -adic  $q$ -distributions, Banach spaces over fields with an infinite rank valuation, Grobman-Hartman theorems for diffeomorphisms of Banach spaces over valued fields, integral representations of continuous linear maps on  $p$ -adic spaces of continuous functions, non-Archimedean operator algebras, generalized Keller spaces over valued fields, proper multiplications on the completion of a totally ordered abelian group, the Grothendieck approximation theory in non-Archimedean functional analysis, generalized power series spaces, measure theory and the study of power series and analytic functions on the Levi-Civita fields.

Through a combination of new research articles and survey papers, this book provides the reader with an overview of current developments and techniques in non-archimedean analysis as well as a broad knowledge of some of the sub-areas of this exciting and fast-developing research area.

Readership

Graduate students and researchers interested in non-archimedean analysis and related topics.

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